force multiplication inputs outputs force exerted by force acting on conservation force acting on force exerted by lever effort lever energy large distance moved at steady speed small distance moved at steady speed distance multiplication force exerted by force acting on conservation force acting on force exerted by effort load lever lever energy large distance moved at steady speed small distance moved at steady speed machines make connections for levers, stiff material links input and output for pulleys, stiff rope links input and output for hydraulic machines, nearly incompressible fluid links input and output